Maricopa Integrated Health Systems Formulary Prior Auth Criteria

Drug: Humatrope (Somatropin)

Saizen Protropin

Therapy:

Is indicated for the long-term treatment of pediatric patients who have growth failure due to an inadequate secretion of endogenous growth hormone. Other causes of short stature should be excluded

Adult onset:

Patients who have growth hormone deficiency either alone or with multiple hormone deficiencies (hpopituitarism), as a result of pituitary disease, hpothalamic disease, surgery, radiation therapy, or trauma

Inclusions:

- A) Request comes from the Endocrinologist
- **B)** Patient failed at least two growth stimulation tests (peak <10 micrograms/ml)
- C) For acquired forms of GH deficiency- Adults Onset
 - 1) head trauma- transection of pituitary stalk
 - 2) Intracranial lesions- CT or MRI confirmation
 - 3) Irradiation therapy- greater than 2400 rads of cranial radiation
 - 4) Therapy that is associated with abnormal spontaneous generation of growth hormone
- **D)** Children with a diagnosis consistent with GH deficiency
 - 1) Must have proportionate short stature with height <5th percentile on standard growth chart
 - 2) Height and weight of parents
 - 3) Abnormal growth velocity as demonstrated on growth chart (<5cm/year)
 - a) Chronic renal failure while awaiting transplantation
 - b) Girls with Turner's Syndrome
 - a) Chronological age ≥5 years
 - b) Abnormal growth velocity as demonstrated on growth chart (i.e. <5cm/year)
 - c) Endpoint of therapy will be when growth has stopped, (height gain <5cm/year, generally around the chronological age of 12 or 13).
 - 4) Delayed bone age <2 SD from norm as compared with chronological age
 - 5) Absence of chronic disease, psychosocial dwarfism or malnutrition
 - 6) Patient **does not have** a closed or fused epiphyses

Exclusions:

A) High catabolic states

Burn patients

Chronic glucocorticoid therapy

Status post major surgery

Cardiomyopathy

- **B)** Non-growth hormone deficient short stature
- **C)** Intrauterine growth retardation
- **D)** Downs Syndrome
- **E)** Prader-Willi syndrome
- F) Skeletal dysplasias

Additional information:

Discontinuation should be considered

- A) Decrease in growth velocity while on rGH therapy, i.e. <5cm/year
- B) Bone age of: >14 in females

>16 in males

- C) Height attained that is within genetic potential as defined by midparental height:
 - 1) Males

$$(Mother's height + 13cm) + father's height$$

2) Females (Father's height – 13cm) + mother height

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D) Poor compliance

Authorization:

Six months

Continue authorization every six months will need

Children:

- A) Growth rate of ≥ 2.5 cm/6months
- B) Monitored for leukemia, insulin resistance and slipped femoral epiphyses
- C) Growth velocity improved since initiation

Adults:

- A) Evaluation of patient's serum insulin-like factor I to confirmed appropriateness of current dose
- B) Patient improved in any of the following areas: body composition, cardiovascular health, body mineral density, serum cholesterol or physical strength

Medical Director	
Date	